



## **Manually Powered Vehicle (Manpower vehicle driven by body-weight)**

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### **Abstract**

A manpower vehicle driven by body weight is described herein, characterized in that, using a Cheng-Ze drive mechanism whose input shaft and output shaft that run parallel can transforms the swing motion of input shaft into one-way rotation of output shaft to replace the current drive mechanism consisted of crank, chain wheel and chain. This manpower vehicle has advantages such as increasing driving force remarkably, increasing speed, lessening manpower consumed compared with the current vehicle. Furthermore, all transmission parts are mounted in a small closed body, this mechanism is simple and compact in structure, efficiency of transmission is high, performance of dustproof and waterproof is excellent, lubrication is sufficient, maintenance is convenient and life duration is long. It is a substitute for current manpower drive vehicles.